Application No.: 10/612,493

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Amendments to Claims

1. (Currently Amended) A phenanthroline derivative having Formula I, -

$$(R^{1})_{x} \xrightarrow{(R^{2})_{y}} (R^{1})_{x} \qquad (1)$$

wherein:

 R^1 and R^2 are the same or different at each occurrence and are selected from H, F, Cl, Br, alkyl, heteroalkyl, alkenyl, alkynyl, aryl, heteroaryl, $C_nH_aF_b$, $OC_nH_aF_b$, $C_6H_cF_d$, and $OC_6H_cF_d$;

a, b, c, and d are 0 or an integer such that a+b = 2n + 1, and c + d = 5, n is 1-20;

x is 0 or an integer from 1 through 3;

y is 0, 1 or 2;

wherein at least one R¹ is selected from substituted phenyl and substituted biphenyl having at least one substituent selected from F, C_nH_aF_b, OC_nH_aF_b, C₆H_cF_d, and OC₆H_cF_d, wherein b and d are integers;

with the proviso that when x is 1, both R^1 are not C_6H_4F .

- 2. (Currently Amended) The composition derivative of Claim 1, wherein R¹ is selected from phenyl, substituted phenyl, biphenyl, substituted biphenyl, pyridyl, substituted pyridyl, bipyridyl, and substituted bipyridyl.
- (Currently Amended) The composition derivative of Claim 2, wherein R¹ is selected from substituted phenyl, substituted biphenyl, substituted pyridyl, substituted bipyridyl having at least one substituent selected from alkyl, heteroalkyl, aryl, heteroaryl, arylalkylene, heteroarylalkylene, C_nH_aF_b, and C₆H_cF_d.
 - 4. (Cancelled)
- 5. (Currently Amended) A phenanthroline derivative selected from Formulae I(b) through I(d) and I(f)

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$$F_3C$$
 CF_3 1 H (b)

$$F_3C$$
 \longrightarrow CF_3 \longrightarrow CF_3

$$F_3C \xrightarrow{CF_3} F_3C \xrightarrow{T} CF_3 \qquad \underline{T} + (d)$$

$$F_3C$$
 CF_3
 F_3C
 CF_3
 F_3C
 CF_3
 CF_3

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- 6. (Cancelled)
- 7. (Cancelled)
- 8. (Cancelled)
- 9. (Cancelled)
- 10. (Cancelled)
- 11. (Cancelled)
- 12. (Cancelled)
- 13. (Cancelled)
- 14. (Cancelled)
- 15. (Cancelled)
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- 33. (Cancelled)
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- 35. (Cancelled)
- 36. (Cancelled)
- 37. (Cancelled)
- 38. (Cancelled)
- 39. (Cancelled)